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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
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Letter Circular LC-633 (Supersedes LC-585)

Information Section National Bureau of Standards Washington, D. C.

CLASSIFICATION OF ACOUSTIC MATERIALS.

The following compilation of acoustic materials has been prepared to assist in the determination of the acceptability of materials which may be proposed to be furnished under Federal Specifications SS-A-118 and SS-A-111. These may be obtained from the Government Printing Office, Washington, D. C. for 5 cents each. The inclusion of a material in this list should not be construed as a general approval of this material. The compilation is based upon the sound absorption coefficients given in Letter Circular LC-632, dated February 12, 1941. It includes some materials which are not covered by the Federal Specifications, and others which do not meet all of their requirements.

Mounting:

1. Cemented to gypsum wall board. This is considered equivalent to cementing to plaster or masonry.
2. Nailed on 13/16" x 2" furring 12" o.c. unless otherwise indicated.
3. Metal supports attached to 13/16" x 2" wood furring.
4. Laid directly on laboratory floor.
5. Nailed on 2 x 4's 12" o.c. unless otherwise indicated.
6. Cemented to the floor of the reverberation chamber.
7. Back of sample covered with concrete.
8. Attached to metal suspension system. 4" air space back of tile.
9. Acoustic tile nailed to 13/16" x 2" furring 18" o.c. Space between furring filled with Rockwool
10. Laid on 2 x 8's, 12" o.c.
11. Laid on 24 gauge sheet iron, nailed to 13/16" x 2" furring 24" o.c.

Fire Resistance:

c. Combustible, as defined in Federal Specification SS-A-118.
s. Slow burning, as defined in Federal Specification SS-A-118.
r. Fire retardant, as defined in Federal Specification SS-A-118.
i. Incombustible, as defined in Federal Specification SS-A-118.

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PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
	CLASS A (.90 and over) (Sound Absorption Coefficients at 512 cycles per second)					
VII	Absorbex Type A	The Celotex Corporation	1"	9	2.6	r
VII	Absorbex Type F (8 gauge)	" " "	2"	7	4.7	r
V	Acousti-Celotex Type C4**	" " "	1¼"	1	1.58	c
V	Acousti-Celotex Type C4**	" " "	1¼"	8	1.44	c
V	Acousti-Celotex Type C4, slow burning**	" " "	1¼"	1	1.80	s
V	Acousti-Celotex Type C6**	" " "	1¼"	4	1.44	c
V	Acousti-Celotex Type M3	" " "	1¼"	1	2.58	i
VI	Acoustone Type F, mill painted	U. S. Gypsum Co.	15/16"	1	1.54	i
I	Akoustolith Tile Grade C	R. Guastavino Company	4"	4	19.5	i
I	Akoustolith Tile Grade C	" " "	5"	4	24.4	i
I	Akoustolith Tile Grade C	" " "	5"	5	24.4	i
I	Akoustolith Tile Grade C	" " "	5"	10	24.4	i
I	Akoustolith Tile Grade D	" " "	4"	4	18.8	i
II	Berry-Cel	F. E. Berry, Jr. & Co. Inc.	1"	8	2.57	i
II	Berry-Cel (plus rockwool back of tile)	" " " "	1" (tile)	8	2.99	i
II	Calicel Acoustic Tile	The Celotex Corporation	1¼"	1	3.42	i
IV	Sanacoustic Pad 1¼", plus metal facing, pad supports and furring 2½"	Johns-Manville Sales Corp.	-	3	1.2 (pad)	i

**Coefficient of sound absorption at 2048 cycles less than 3/4 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS B (.85 to .89) (Sound Absorption Coefficients at 512 cycles per second)				
IV	Acousti-Metal, Rockwool pad, plus metal facing & pad supports 1 5/8", plus furring 4"	National Gypsum Company	-	8	0.98 (pad)	i
VI	Acoustone Type D	U. S. Gypsum Co.	15/16"	1	1.48	i
VI	Acoustone Type F, mill painted	" " " "	13/16"	1	1.33	i
I	Akoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	5	2.66	i
I	Calistone	" " "	2"	4	9.3	i
-	Stackoustic	Johns-Manville Sales Corp.	3"	4	1.3 plus wt. of covering.	
		CLASS C (.80 to .84) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbatone	Luse Stevenson Company	1"	10	2.2	r
VII	Absorbex Type A on 1" Absorbex Type F (10 gauge)	The Celotex Corporation	2"	4	-	r
VII	Acoustex Type 70R	National Gypsum Company	1 1/8"	2	2.5	r
VIII	Acoustilite	The Insulite Company	3/4"	2	0.57	c
VI	Acoustone Type F	U. S. Gypsum Co.	13/16"	1	1.24	i
VI	Acoustone Type F	" " " "	15/16"	1	1.46	i
I	Akoustolith Tile Sample No. 104	R. Guastavino Co.	4"	4	21.2	i
I	Calistone, Long edges splayed on opposite sides. 5 holes 3" in diam. through body of tile.	The Celotex Corporation	4"	4	17.6	i
I	Calistone	" " "	5"	4	22.4	i
I	Calistone Type Y	" " "	5"	4	25.7	i
II	Muffletone, Standard Finish	" " "	1"	1	1.83	i
IV	Perfatone, Rockwool pad, plus metal facing and pad supports 1 5/8", plus furring 8"	U. S. Gypsum Company	-	8	.93 (pad)	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	1	2.33	i
II	Travacoustic	National Gypsum Co.	1"	1	2.04	i

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS D (.75 to .79) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 60R	National Gypsum Company	1"	2	2.07	r
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	1	0.94	c
V	Acousti-Celotex Type C4	" " "	1¼"	8	1.93	s
V	Acousti-Celotex Type C5*	" " "	13/16"	2	.86	c
V	Acousti-Celotex C6	" " "	1¼"	8	1.65	s
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	c
VI	Acoustone Type D	U. S. Gypsum Company	13/16"	1	1.40	i
VI	Acoustone Type F, mill painted	" " " "	11/16"	1	1.13	i
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1¼"	5	5.8	i
I	Akoustolith Tile Grade C	" " "	4"	10	19.5	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	i
II	Calicel Acoustic Tile	The Celotex Corporation	1¼"	5	3.42	i
VI	Corkoustic Type B5* **	Armstrong Cork Company	1½"	2	.75	s
VI	Corkoustic Type B6* **	" " "	1¾"	1	.85	s
VIII	Econacoustic	National Gypsum Company	1"	1	0.71	c
VIII	Fiberlite	The Insulite Company	1/2"	2	.44	c
VII	Fibretex Type 60R(1)	Johns-Manville Sales Corp.	1"	2	2.07	r
VII	Kencoustex	David E. Kennedy, Inc.	1"	1	2.24	r
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.84	i
VI	Pyrocustic	Minfelt Insulation Company	13/16"	1	1.1	i
VIII	Quietone*	U. S. Gypsum Company	1"	4	0.81	c
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	i
IV	Sanacoustic, Rockwool pad, plus metal facing and pad supports, plus furring 5 1/4"	Johns-Manville Sales Corp.	-	8	1.2 (Pad)	i
IV	Transite Acoustical Units	Johns-Manville Sales Corp.	1 1/8"	4	2.0	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

**Coefficient of aound absorption at 2048 cycles less than 3/4 of the coefficient at 512 cycles.

(1) These figures are based on tests of Acoustex manufactured by the National Gypsum Company.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS E (.70 to .74)				
		(Sound Absorption Coefficients at 512 cycles per second)				
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	r
VII	Acoustex Type 70R	" " "	1 1/8"	1	2.5	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	c
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	13/16"	8	1.31	i
I	Akoustolith Tile Grade D	R. Guastavino Co.	4"	10	18.8	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	1	2.66	i
I	Calistone	" " "	2"	5	9.3	i
VI	Corkoustic Type B5*	Armstrong Cork Co.	1½"	1	.82	s
VIII	Fiberlite	The Insulite Co.	1/2"	2	.44	c
VII	Fibretex Type 50R	Johns-Manville Sales Corp.	7/8"	2	1.79	r
II	Kalite, cast on ¼" backing of moulding plaster Grade A (Coarse)	Certain-teed Products Corp.	2"	4	-	i
VII	Koustex	David E. Kennedy, Inc.	1¼"	1	2.2	r
II	Muffletone, Travertine Finish	The Celotex Corporation	1"	1	1.96	i
III	Spongecoustic	Johns-Manville Sales Corp.	3/4"	1	1.58	i
VIII	Studio Element	" " " "	1"	4	1.47	
		CLASS F (.65 To .69)				
		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	3"	2	-	r
V	Acousti-Celotex Type C2	" " "	5/8"	1	.89	s
V	Acousti-Celotex Type C3	" " "	13/16"	8	1.09	c
V	Acousti-Celotex Type C3	" " "	13/16"	1	1.35	s
V	Acousti-Celotex Type C3	" " "	13/16"	8	1.06	s
V	Acousti-Celotex Type C8	" " "	1"	2	1.44	c
V	Acousti-Celotex Type M1	" " "	9/16"	1	1.23	i
V	Acousti-Celotex Type M2	" " "	1"	8	2.32	i
VI	Acoustone Type D*	United States Gypsum Co.	11/16"	1	1.30	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Material	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS F (.65 to .69) Continued				
		(Sound Absorption Coefficients at 512 cycles per second)				
VI	Acoustone Type F	United States Gypsum Co.	11/16"	1	1.15	i
VI	Acoustone Type F, mill painted*	" " " "	9/16"	1	.97	i
I	Akoustolith Grade B-1	R. Guastavino Company	2"	5	9.4	i
I	Akoustolith Grade B-2	" " "	1½"	4	6.1	i
VI	Corkoustic Type B5*	Armstrong Cork Company	1½"	1	.75	s
VIII	Econacoustic	National Gypsum Company	1/2"	1 or 2	0.48	c
VIII	Hawaiian Cane Products	Hawaiian Cane Products, Ltd.	1"	1	0.75	c
VI	Kencoustic (cork)	David E. Kennedy, Inc.	1½"	1	.88	s
II	Muffletone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	5	2.33	i
VIII	Temcoustic F2	Armstrong Cork Company	7/8"	1	1.02	c
		CLASS G (.60 to .64)				
		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	r
VII	Acoustex Type 40R	National Gypsum Company	3/4"	2	1.54	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	c
V	Acousti-Celotex Type C2	" " "	5/8"	2	1.07	s
V	Acousti-Celotex Type C5	" " "	13/16"	1	-	c
V	Acousti-Celotex Type C5	" " "	13/16"	8	1.12	s
V	Acousti-Celotex Type MU-1	" " "	1/2"	1	1.39	i
VI	Acoustone Type D	U. S. Gypsum Co.	9/16"	1	1.09	i
VI	Acoustone Type F, mill painted	" " " "	9/16"	1	.97	i
II	Calicel Acoustic Tile*	The Celotex Corporation	3/4"	1	-	i
I	Calistone	" " "	4"	4	17.8	i
VII	Fibretex Type 40R	Johns-Manville Sales Corp.	3/4"	2	1.54	r
II	Kalite cast on ¼" backing of moulding plaster Grade A(Coarse)	Certain-teed Products Corp.	1½"	4	-	i
VI	Kencoustic (cork) Type CB-1.5* **	David E. Kennedy, Inc.	1½"	1	-	s
VIII	Maizewood Tile	Maizewood Products Corporation	1½"	4	2.1	c

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.
**Coefficient of sound absorption at 2048 cycles less than 3/4 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS H (.55 to .59) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 30R	National Gypsum Company	5/8"	2	1.34	r
VII	Acoustex Type 60R	" " "	1"	1	-	r
I	Akoustolith Tile Grade D	R. Guastavino Company	2"	4	-	i
VI	Cork* **	Armor Insulating Company	1½"	1	0.96	s
VI	Corkoustic Type B4	Armstrong Cork Company	1¼"	1	.63	s
VI	Acoustone Type F	U. S. Gypsum Co.	9/16"	1	.88	i
VII	Fibretex Type 30R	Johns-Manville Sales Corp.	5/8"	2	1.34	r
VII	Fibretex Type 60R	" " " "	1"	1	-	r
II	Kalite, cast on ¼" backing of moulding plaster, Grade D (fine)	Certain-teed Products Corp.	1½"	4	-	i
II	Kalite, cast on ¼" backing moulding plaster, Grade D (fine)	" " " "	2"	4	-	i
VIII	Quietone	U. S. Gypsum Company	1/2"	1	0.47	c
		CLASS I (.50 to .54) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 60R	National Gypsum Company	1"	1	2.31	r
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1/2"	11	.80	r
I	Akoustolith Tile Grade C	R. Guastavino Company	2"	4	10.1	i
VIII	Fiberlite	The Insulite Company	1/2"	1	.41	c
		CLASS J (.45 to .49) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type F (10 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C1	" " "	1/2"	1	.78	c
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1"	4	4.6	i
II	Kalite, cast on ¼" backing of moulding plaster, Grade D (Fine)	Certain-teed Products Corp.	1"	4	-	i
II	Trutone, cast on ¼" gypsum wall-board	Acoustone Company, Ltd.	7/8"	4	-	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.
**Coefficient of sound absorption at 2048 cycles less than 3/4 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS K (.40 to .44)				
		(Sound Absorption Coefficients at 512 cycles per second)				
V	Acousti-Celotex Type C1	The Celotex Corporation	1/2"	1	.88	s
I	Akoustolith Tile Grade C	R. Guastavino Company	1½"	4	7.5	i
VIII	Hawaiian Cane Tile	Hawaiian Cane Products, Ltd.	1"	2	.81	c
II	Kalite, cast on ¼" backing of moulding plaster, Grade A (Coarse)	Certain-teed Products Corp.	1"	4	-	i
		CLASS L (.35 to .39)				
		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 40R	National Gypsum Company	3/4"	1	1.75	r
VI	Acoustical Cork "B"	United Cork Companies	1½"	2	.94	s
VII	Fibretex Type 40R	Johns-Manville Sales Corp.	3/4"	1	1.75	r
VIII	Nuwood Bevel Lap Tile	Wood Conversion Co.	1"	6	1.41	c
VIII	Temlok DeLuxe	Armstrong Cork Company	1/2"	4	1.18	c
VIII	Temlok DeLuxe	" " "	7/8"	4	1.19	c
VIII	Temlok DeLuxe	" " "	1 3/8"	4	1.65	c
		CLASS M (.30 to .34)				
		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VI	Cork*	Armor Insulating Company	1"	1	0.67	s
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.69	c
II	KenKoustone	David E. Kennedy, Inc.	1"	1	2.34	-
		CLASS N (.25 to .29)				
		(Sound Absorption Coefficients at 512 cycles per second)				
I	Akoustolith Tile Grade D	R. Guastavino Company	1"	4	-	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS AA (.90 or over) Noise Coefficients				
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	4	24.4	i
I	Akoustolith Tile Grade C	" " "	5"	10	24.4	i
			Not nailed			
II	Berry-Cel, plus Rockwool at back of tile.	F. E. Berry, Jr. & Co., Inc.	1" (tile)	8	2.99	i
-	Stackoustic	Johns-Manville Sales Corp.	3"	4	1.3 plus wt. of covering	
		CLASS BB (.85) Noise Coefficients				
VII	Absorbatone	Luse Stevenson Company	1"	10	2.2	r
IV	Acousti-Metal, Rockwool pad, plus metal facing and pad supports, 1 5/8" plus furring 5¼".	National Gypsum Company	-	8	0.98	i
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	5	24.4	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	5	2.66	i
II	Calicel Acoustic Tile	" " "	1¼"	5	3.42	i
IV	Perfatone, Rockwool pad plus metal facing & pad supports, plus furring 8"	U. S. Gypsum Company	-	8	.93 (pad)	i
IV	Sanacoustic, Rockwool pad plus metal facing & pad supports, plus furring 5 1/4".	Johns-Manville Sales Corp.	-	8	1.2 (pad)	i
		CLASS CC (.80) Noise Coefficients				
VII	Absorbex Type A	The Celotex Corporation	1"	9	2.6	r
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1¼"	5	5.8	i
I	Akoustolith Tile Grade C	" " "	4"	10	19.5	i
			Not nailed			
I	Akoustolith Tile Grade C	" " "	4"	4	19.5	i
I	Akoustolith Tile Grade D	" " "	4"	10	18.8	i
I	Akoustolith Tile Grade D	" " "	4"	4	18.8	i
I	Akoustolith Tile, Sample No. 104	" " "	4"	4	21.2	i

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS CC (.80) Continued Noise Coefficients				
VI	Acoustone Type F, mill painted	U. S. Gypsum Co.	15/16"	1	1.54	i
II	Berry-Cel	F. E. Berry, Jr. & Co. Inc.	1"	8	2.57	i
I	Calistone	The Celotex Corporation	2"	5	9.3	i
I	Calistone	" " "	5"	4	22.4	i
I	Calistone Type Y	" " "	5"	4	25.7	i
IV	Sanacoustic, Rockwool pad, plus metal facing, pad supports and furring 2½"	Johns-Manville Sales Corp.	-	3	1.2 (Pad)	i
		CLASS DD (.75) Noise Coefficients				
VII	Absorbex Type A on 1" Absorbex Type F (10 gauge)	The Celotex Corporation	2"	4	-	r
VII	Absorbex Type F (8 gauge)	" " "	2"	7	4.7	r
VIII	Acoustilite	The Insulite Company	3/4"	2	0.57	c
VII	Acoustex Type 70R	National Gypsum Co.	1 1/8"	2	2.5	r
V	Acousti-Celotex Type C4	The Celotex Corporation	1¼"	8	1.44	c
V	Acousti-Celotex Type C5	" " "	13/16"	2	.86	c
V	Acousti-Celotex Type C6	" " "	1¼"	8	1.65	s
V	Acousti-Celotex Type M3	" " "	1¼"	1	2.58	i
I	Akoustolith Tile Grade B-1	R. Guastavino Co.	2"	5	9.4	i
VI	Acoustone Type D	U. S. Gypsum Co.	15/16"	1	1.48	i
VI	Acoustone Type F	" " " "	15/16"	1	1.46	i
VI	Acoustone Type F, mill painted	" " " "	13/16"	8	1.31	i
I	Akoustolith Tile Grade B-1	R. Guastavino Co.	2"	5	9.4	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	i
II	Calicel Acoustic Tile	The Celotex Corporation	1¼"	1	3.42	i
I	Calistone	" " "	2"	4	9.3	i
I	Calistone, Long edges splayed on opposite sides, 5 holes 3" in diam. through body of tile.	" " "	4"	4	17.6	i

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS DD (.75) Continued Noise Coefficients				
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.83	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	5	2.33	i
VI	Permacoustic	" " " "	1"	1	2.33	i
		CLASS EE (.70) Noise Coefficients				
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	r
VII	Acoustex Type 60R	" " "	1"	2	2.07	r
VII	Acoustex Type 70R	" " "	1 1/8"	1	2.5	r
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	8	1.09	c
V	Acousti-Celotex Type C3	" " "	13/16"	8	1.06	s
V	Acousti-Celotex Type C4	" " "	1¼"	1	1.80	s
V	Acousti-Celotex Type C4	" " "	1¼"	8	1.93	s
V	Acousti-Celotex Type C5	" " "	13/16"	8	1.12	s
V	Acousti-Celotex Type C6	" " "	1¼"	4	1.44	c
V	Acousti-Celotex Type C8	" " "	1"	2	1.44	c
V	Acousti-Celotex Type M2	" " "	1"	8	2.32	i
VI	Acoustone Type D	U. S. Gypsum Company	13/16"	1	1.40	i
VI	Acoustone Type F	" " " "	13/16"	1	1.24	i
VI	Acoustone Type F, mill painted	" " " "	11/16"	1	1.13	i
VI	Acoustone Type F, mill painted	" " " "	13/16"	1	1.33	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
I	Akoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	1	2.66	i
VIII	Econacoustic	National Gypsum Company	1"	1	0.71	c
VII	Fibretex Type 50R	Johns-Manville Sales Corp.	7/8"	2	1.79	r
VII	Fibretex Type 60R	" " " "	1"	2	2.07	r
VII	Koustex	David E. Kennedy, Inc.	1 1/4"	1	2.2	r
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.84	i
VI	Pyrocustic	Minfelt Insulation Co.	15/16"	1	1.1	i
VIII	Studio Element	Johns-Manville Sales Corp.	1"	4	1.47	-
II	Travacoustic	National Gypsum Co.	1"	1	2.04	i

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS FF (.65) Noise Coefficients				
VII	Acoustex Type 30R	National Gypsum Company	5/8"	2	1.34	r
VII	Acoustex Type 40R	" " "	3/4"	2	1.54	r
VII	Acoustex Type 60R	" " "	1"	1	-	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	c
V	Acousti-Celotex Type C3	" " "	13/16"	1	0.94	c
V	Acousti-Celotex Type C4	" " "	1¼"	1	1.58	c
V	Acousti-Celotex Type M1	" " "	9/16"	1	1.23	i
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	c
VI	Acoustone Type D	U. S. Gypsum Company	11/16"	1	1.30	i
VI	Acoustone Type F	" " " "	11/16"	1	1.15	i
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1½"	4	6.1	i
VIII	Fiberlite, painted by mfr.	The Insulite Company	1/2"	2	.44	c
VII	Fibretex Type 30R	Johns-Manville Sales Corp.	5/8"	2	1.34	r
VII	Fibretex Type 40R	" " " "	3/4"	2	1.54	r
VIII	Hawaiian Cane Tile	Hawaiian Cane Products Co.	1"	1	0.75	c
II	Kalite, Grade A (Coarse)	Certain-teed Products Corp.	2"	4	-	i
VII	Kencoustex	David E. Kennedy, Inc.	1"	1	2.24	r
VIII	Maizewood Tile	Maizewood Products Corp.	1½"	4	2.1	c
II	Mufflotone, Travertine Finish	The Celotex Corporation	1"	1	1.96	i
VI	Pyrocustic	Mineralt Insulation Company	13/16"	1	1.1	i
VIII	Quietone	U. S. Gypsum Company	1"	4	0.81	c
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	i
III	Spongecoustic	Johns-Manville Sales Corp.	3/4"	1	1.58	i
IV	Transite Acoustical Unit	" " " "	1 1/8"	4	3.0	i
		CLASS GG (.60) Noise Coefficients				
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	r
VII	Acoustex Type 60R	National Gypsum Company	1"	1	2.31	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	c
V	Acousti-Celotex Type C2	" " "	5/8"	1	.89	s

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS GG (.60) Continued				
		Noise Coefficients				
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	1.07	s
V	Acousti-Celotex Type C3	" " "	13/16"	1	1.35	s
VI	Acoustone Type D	U. S. Gypsum Co.	9/16"	1	1.09	i
VI	Acoustone Type F	" " " "	9/16"	1	.88	i
VI	Acoustone Type F, mill painted	" " " "	9/16"	1	.97	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1/2"	11	.80	r
II	Calicel Acoustic Tile	The Celotex Corporation	3/4"	1	-	i
I	Calistone	" " "	4"	4	17.8	i
VIII	Econacoustic	National Gypsum Co.	1/2"	1 or 2	0.48	c
II	Kalite, Grade A (Coarse)	Certain-teed Products Corp.	1½"	4	-	i
II	Mufflctone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Tonecoustic F-2	Armstrong Cork Company	7/8"	1	1.02	c
		CLASS HH (.55)				
		Noise Coefficients				
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C5	" " "	13/16"	1	-	c
V	Acousti-Celotex Type MU-1	" " "	1/2"	1	1.39	i
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1"	4	4.5	i
I	Akoustolith Tile Grade C	" " "	2"	4	10.1	i
I	Akoustolith Tile Grade D	" " "	2"	4	-	i
VI	Corkoustic Type B5	Armstrong Cork Company	1½"	1	.75	s
VI	Corkoustic Type B5	" " "	1½"	2	.75	s
VI	Corkoustic Type B5	" " "	1½"	1	.82	s
VI	Corkoustic Type B6	" " "	1¾"	1	.85	s
VIII	Hawaiian Cane Tile	Hawaiian Cane Products, Ltd.	1"	2	.81	c
VIII	Fiberlite, painted by mfr.	The Insulite Company	1/2"	1	.41	c
II	Kalite, Grade D (Fine)	Certain-teed Products Corp.	1½"	4	-	i
II	Kalite, Grade D (Fine)	" " " "	2"	4	-	i
VIII	Quietone	U. S. Gypsum Company	1/2"	1	0.47	c
II	Trutone Tile, cast on ¼" gypsum wallboard	Acoustone Company, Ltd.	7/8"	4	-	i

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118 TYPE	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS II (.50) Noise Coefficients				
VII	Acoustex Type 40R	National Gypsum Company	3/4"	1	1.75	r
I	Akoustolith Tile Grade C	R. Guastavino Company	1½"	4	7.5	i
VI	Corkoustic Type B4	Armstrong Cork Company	1½"	1	.63	s
VII	Fibretex Type 40R	Johns-Manville Sales Corp.	3/4"	1	1.75	r
II	Kalite, Grade A (Coarse)	Certain-teed Products Corp.	1"	4	-	i
VI	Kencoustic (cork)	David E. Kennedy, Inc.	1½"	1	.88	s
		CLASS JJ (.45) Noise Coefficients				
VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VII	Absorbex Type F (10 gauge)	" " "	1"	2	-	r
V	Acousti-Celotex Type C1	" " "	1/2"	1	.78	c
II	Kalite, Grade D (Fine)	Certain-teed Products Corp.	1"	4	-	i
VI	Kencoustic (cork) Type CD-1.5	David E. Kennedy, Inc.	1½"	1	-	s
		CLASS KK (.40) Noise Coefficients				
V	Acousti-Celotex Type C1	The Celotex Corporation	1/2"	1	.88	s
I	Akoustolith Tile Grade D	R. Guastavino Company	1"	4	-	i
VI	Acoustical Cork "B"	United Cork Companies	1½"	2	.44	s
VIII	Temlok DeLuxe	Armstrong Cork Company	7/8"	4	1.19	c
VIII	Temlok DeLuxe	" " "	1 3/8"	4	1.55	c
		CLASS LL (.35) Noise Coefficients				
VI	Cork	Armor Insulating Company	1"	1	.67	s
VI	Cork	" " "	1½"	1	.96	s
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1"	6	1.41	c
		CLASS MM (.30) Noise Coefficients				
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.69	c
VIII	Temlok DeLuxe	Armstrong Cork Company	1/2"	4	1.18	c
		CLASS OO (.20) Noise Coefficients				
II	KenKoustone	David E. Kennedy, Inc.	1"	1	2.34	-

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFICATION SS-A-111 TYPE	Material	Manufacturer	Thickness
	CLASS A (.90 or over) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Keasbey & Mattison Company	3/4"
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Keasbey & Mattison Company	1/2"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board, finished with roller. Not painted.	Keasbey & Mattison Company	1 1/2"
III	Spray-Acoustic Type X, applied with air gun on gypsum wall board, finished with roller.	Sprayo-Flake Co.	1 1/8"
	CLASS B (.85 to .89) Sound Absorption Coefficients (at 512 cycles per second)		
III	Spray-Acoustic Type X, applied with air gun on metal lath, finished with roller.	Sprayo-Flake Co.	5/8"
	CLASS E (.70 to .74) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board. Not painted.	Keasbey & Mattison Co.	3/4"
	CLASS F (.65 to .69) Sound Absorption Coefficients (at 512 cycles per second)		
I	Macoustic Plaster, trowel finish	National Gypsum Company	3/4"
I	Stucoustic Plaster Type A.D.	California Stucco Products of New England, Inc.	3/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFICATION SS-A-111 TYPE	Material	Manufacturer	Thicknes
	CLASS G (.60 to .64) Sound Absorption Coefficients (at 512 cycles per second)		
I	Kalite Plaster H, coarse aggregate	Certain-teed Products Corp.	3/4"
I	Old Newark Acoustic Plaster	Newark Plaster Company	3/4"
	CLASS H (.55 to .59) Sound Absorption Coefficients (at 512 cycles per second)		
I	Sabinite Plaster A	U. S. Gypsum Company	3/4"
	CLASS I (.50 to .54) Sound Absorption Coefficients (at 512 cycles per second)		
I	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	5/8"
III	Limpet (Sprayed Asbestos), applied with air gun on hard asbestos board.	Keasbey & Mattison Company	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Reverbolite Plaster (Regular)	The Celotex Corporation	1/2"
I	Stucoustic Plaster, Type A.D.	California Stucco Products of New England, Inc.	1/2"
	CLASS J (.45 to .49) Sound Absorption Coefficients (at 512 cycles per second)		
I	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	1/2"
I	Hushkote Acoustic Plaster	" " " "	3/4"
I	Kalite Plaster H, Coarse Aggregate	Certain-teed Products Corp.	1/2"
I	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Co.	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFICATION SS-A-111 TYPE	Material	Manufacturer	Thickness
	CLASS K (.40 to .44) Sound Absorption Coefficients (at 512 cycles per second)		
I	Acoustic Plaster	Hollywood Stucco Products, Inc.	1/2"
I	Calacoustic Plaster	Pacific Portland Cement Co.	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Old Newark Acoustic Plaster	Newark Plaster Company	1/2"
I	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
I	Sabinite Plaster F	U. S. Gypsum Company	1/2"
	CLASS L (.35 to .39) Sound Absorption Coefficients (at 512 cycles per second)		
I	Akoustolith Plaster	R. Guastavino Company	3/4"
I	Rockwall Acoustic Plaster	National Gypsum Company	1/2"
I	Sabinite Plaster A	U. S. Gypsum Company	1/2"
	CLASS M (.30 to .34) Sound Absorption Coefficients (at 512 cycles per second)		
I	Dodson Acoustic Plaster	The Dodson Manufacturing Co.	3/4"
	CLASS N (.25 to .29) Sound Absorption Coefficients (at 512 cycles per second)		
I	Sabinite Plaster Hydraulic	U. S. Gypsum Company	1/2"
	CLASS P (less than .20) Sound Absorption Coefficients (at 512 cycles per second)		
I	Akoustolith Plaster	R. Guastavino Company	1/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFICATION SS-A-111 TYPE	Material	Manufacturer	Thickness
	CLASS AA (.90) Noise Coefficients		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Keasbey & Mattison Co.	3/4"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	" " " "	1 1/2"
III	Spray-Acoustic Type X, applied with air gun on metal lath.	Sprayo-Flake Co.	5/8"
	CLASS BB (.85) Noise Coefficients		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Keasbey & Mattison Co.	1/2"
III	Spray-Acoustic Type X, applied with air gun on gypsum wall board.	Sprayo-Flake Co.	1 1/8"
	CLASS EE (.70) Noise Coefficients		
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Keasbey & Mattison Co.	3/4"
	CLASS GG (.60) Noise Coefficients		
I	Old Newark Acoustic Plaster	Newark Plaster Co.	3/4"
I	Sabinite Plaster A	U. S. Gypsum Co.	3/4"
I	Stucoustic Plaster	California Stucco Products of New England, Inc.	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFICATION SS-A-111 TYPE	Material	Manufacturer	Thickness
	CLASS HH (.55) Noise Coefficients		
I	Acoustic Plaster	Hollywood Stucco Products, Inc.	1/2"
I	Kalite Plaster H, Coarse Aggregate	Certain-teed Products Corp.	3/4"
I	Kalite Plaster H, Coarse Aggregate	" " " "	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Macoustic Plaster, trowel finish	" " "	3/4"
I	Reverbolite Plaster (Regular)	The Celotex Corporation	1/2"
I	Sabinite Plaster A	U. S. Gypsum Company	1/2"
I	Sabinite Plaster F	" " " "	1/2"
I	Stucoustic Plaster Type A.D.	California Stucco Products of New England, Inc.	3/4"
	CLASS II (.50) Noise Coefficients		
I	Calacoustic Plaster	Pacific Portland Cement Co.	1/2"
I	Hushkote Acoustic Plaster	Cleveland Gypsum Co.	1/2"
I	Old Newark Acoustic Plaster	Newark Plaster Co.	1/2"
I	Rockwall Acoustic Plaster, trowel finish	National Gypsum Co.	1/2"
I	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Co.	1/2"
	CLASS JJ (.45) Noise Coefficients		
I	Akoustolith Plaster	R. Guastavino Company	3/4"
I	Hushkote Acoustic Plaster	Cleveland Gypsum Company	5/8"
I	Hushkote Acoustic Plaster	" " "	3/4"
I	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFICATION SS-A-111 TYPE	Material	Manufacturer	Thickness
	CLASS KK (.40) Noise Coefficients		
I	Dodson Acoustic Plaster	The Dodson Manufacturing Co.	3/4"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Rockwall Acoustic Plaster, cork float finish	" " "	1/2"
	CLASS LL (.35) Noise Coefficients		
I	Sabinite Plaster (Hydraulic)	U. S. Gypsum Company	1/2"
	CLASS NN (.25) Noise Coefficients		
I	Akoustolith Plaster	R. Guastavino Company	1/4"